

Title (en)

Data processing system having an instruction pipeline

Title (de)

Datenverarbeitungssystem mit Befehlspipeline

Title (fr)

Système de traitement de données avec pipeline d'instruction

Publication

EP 0862112 A3 20001206 (EN)

Application

EP 98102737 A 19980217

Priority

- JP 4406497 A 19970227
- JP 28999497 A 19971022

Abstract (en)

[origin: EP0862112A2] A data processing system having a pipeline is provided which includes a CPU designed to fetch a plurality of instructions simultaneously from a memory through a data bus in an instruction fetching stage. Each of the instructions is expressed in a string of bits having a bit length which is shorter than a bus width of the data bus. The instruction fetching stage is effected every instruction processing cycles of a number equal to the number of the instructions simultaneously fetched from the memory for a period of time during which instruction decoding stages of a number equal to the number of simultaneously fetched instructions are effected in the instruction processing cycles in succession. This enables high-speed pipelined operations. <IMAGE>

IPC 1-7

G06F 9/38

IPC 8 full level

G06F 9/38 (2006.01)

CPC (source: EP)

G06F 9/3802 (2013.01); **G06F 9/3824** (2013.01); **G06F 9/3836** (2013.01); **G06F 9/3869** (2013.01); **G06F 9/3875** (2013.01)

Citation (search report)

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- [A] MCGEADY S: "THE I960CA SUPER SCALAR IMPLEMENTATION OF THE 80960 ARCHITECTURE", WESCON TECHNICAL PAPERS,US,WESTERN PERIODICALS CO. NORTH HOLLYWOOD, VOL. 33, PAGE(S) 628-637, XP000116074
- [A] MELEAR C: "THE DESIGN OF THE 88000 RISC FAMILY", IEEE MICRO,US,IEEE INC. NEW YORK, vol. 9, no. 2, 1 April 1989 (1989-04-01), pages 26 - 38, XP000124913, ISSN: 0272-1732
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Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0862112 A2 19980902; **EP 0862112 A3 20001206**; **EP 0862112 B1 20050921**; DE 69831622 D1 20051027; DE 69831622 T2 20060622; JP 3211750 B2 20010925; JP H10301776 A 19981113

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